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TRANSMITTAL LETTER TO THE UNITED STATES

| DESIGNATED/ELECTED OFFICE (DO/EO/US) | | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) | |
|---|--|---|---|--|
| CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | | 107539426 | |
| INTERNATIONAL APPLICATION NO. PCT/JP2004/010776 | | INTERNATIONAL FILING DATE 22 July 2004 (22.07.2004) | PRIORITY DATE CLAIMED 22 Aug 2003 (22.08.2003) | |
| TITLE OF INVENTION WIDE BAND MODULATION PLL AND MODULATION FACTOR ADJUSTMENT METHOD THEREOF | | | | |
| APPLICANT(S) FOR DO/EO/US | | | | |
| OCHI, Taketoshi; and HIRANO, Shunsuke | | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | |
| 1. ✓ This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | |
| 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | |
| This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | | | |
| 4. The US | The US has been elected (Article 31). | | | |
| 5. 🔽 A cop | A copy of the International Application as filed (35 U.S.C. 371(c)(2)) | | | |
| а. [| a. is attached hereto (required only if not communicated by the International Bureau). | | | |
| b. 🕟 | b. 🚺 has been communicated by the International Bureau. | | | |
| c. [| , , | | | |
| 6. An Er | An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). | | | |
| a. 🖸 | is attached hereto. | | | |
| ь. [| has been previously submit | ted under 35 U.S.C. 154(d)(4). | | |
| 7. Amer | dments to the claims of the Inter | rnational Application under PCT Article 19 (| 35 U.S.C. 371(c)(3)) | |
| a. L | are attached hereto (requir | ed only if not communicated by the Internat | tional Bureau). | |
| ь. [| have been communicated | by the International Bureau. | | |
| c. [| have not been made; howe | ever, the time limit for making such amendn | nents has NOT expired. | |
| d. [| have not been made and v | vill not be made. | | |
| 8. | nglish language translation of the | e amendments to the claims under PCT Art | icle 19 (35 U.S.C. 371(c)(3)). | |
| 9. 🚺 An oa | th or declaration of the inventor(| (s) (35 U.S.C. 371(c)(4)). | | |
| | nglish language translation of the e 36 (35 U.S.C. 371(c)(5)). | annexes of the International Preliminary E | xamination Report under PCT | |
| Items 11 to 20 below concern document(s) or information included: | | | | |
| 11. 🗹 An Int | ormation Disclosure Statement | under 37 CFR 1.97 and 1.98. and Form | PTO-1449 | |
| 12. 🚺 An as | signment document for recordin | g. A separate cover sheet in compliance wi | th 37 CFR 3.28 and 3.31 is included. | |
| 13. 🗸 A pre | liminary amendment. | | | |
| 14. 🗹 An Ar | oplication Data Sheet under 37 C | CFR 1.76. | | |
| 15. A sub | stitute specification. | | | |
| 16. A pov | ver of attorney and/or change of | address letter. | | |
| 17. A con | nputer-readable form of the sequ | uence listing in accordance with PCT Rule 1 | 3ter.2 and 37 CFR 1.821- 1.825. | |
| 18. A sec | ond copy of the published Intern | ational Application under 35 U.S.C. 154(d)(| (4). | |
| | | e translation of the international application xpress Mail; Retum Receipt Postcard; and copy of Internationa | | |
| 20. Other | items or information: | | · | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JC20 Rec'd PCT/PTO

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ATTORNEY'S DOCKET NUMBER U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/JP2004/010776 38351 CALCULATIONS PTO USE ONLY The following fees have been submitted 21. 🔽 Basic national fee.....\$300 300.00 22. 🔽 Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of 200.00 All other situations.....\$200 23 [√] Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100 International Search Report prepared and provided to the Office......\$400 400.00 All other situations.....\$500 900.00 TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Extra Sheets Number of each additional 50 or fraction **Total Sheets** RATE thereof (round up to a whole number) 0.00 48 \$ - 100 = /50 = x \$250 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest \$ 0.00 claimed priority date (37 CFR 1.492(h)). CLAIMS NUMBER FILED NUMBER EXTRA RATE \$ Total claims - 20 = \$ 16 \$ 50 0 х 0.00 Independent claims \$200 \$ 2 x 0 0.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360 360.00 TOTAL OF ABOVE CALCULATIONS = 1,260.00 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. 0.00 1,260.00 SUBTOTAL = Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest \$ claimed priority date (37 CFR 1.492(i)). 0.00 TOTAL NATIONAL FEE = 1,260.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property 40000 TOTAL FEES ENCLOSED = \$ 1,300.00 Amount to be \$ refunded: Amount to be \$ charged: A check in the amount of \$ __1,300.00 to cover the above fees is enclosed. Please charge my Deposit Account No. ___ to cover the above fees. in the amount of \$ _ A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 16-0820 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the international Application to pending status. SEND ALL CORRESPONDENCE TO: Customer Number: 52054 27676 REGISTRATION NUMBER

CERTIFICATE OF EXPRESS MAIL

Appl. No.

TBD

Applicant

Taketoshi Ochi et al.

Filed

Herewith

Title

WIDE BAND MODULATION PLL AND MODULATION FACTOR

ADJUSTMENT METHOD THEREOF

Int'l. Application No.

PCT/JP2004/010776

Int'l. Filing Date

July 22, 2004

Conf. No. TC/A.U. Examiner

TBD

TBD TBD

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